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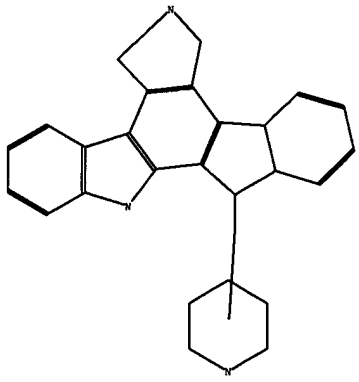

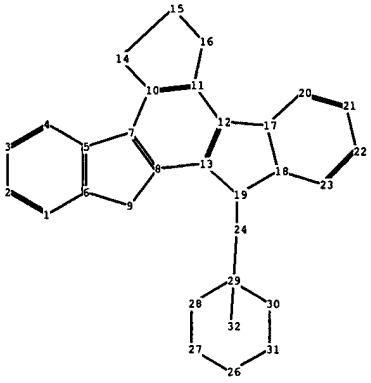

chain nodes :
    24
ring nodes :
    1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21
    22 23 26 27 28 29 30 31
chain bonds :
    19-24
ring bonds :
    1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 7-10 8-9 8-13 10-11
    10-14 11-12 11-16 12-13 12-17 13-19 14-15 15-16 17-18 17-20
    18-19 18-23 20-21 21-22 22-23 26-27 26-31 27-28 28-29 29-30
    30-31
exact/norm bonds :
    5-7 6-9 8-9 10-14 11-16 12-17 13-19 14-15 15-16 17-18 17-20
    18-19 18-23 20-21 21-22 22-23 26-27 26-31 27-28 28-29 29-30
    30-31
exact bonds :
    19-24
normalized bonds :
    1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-10 8-13 10-11 11-12 12-13
isolated ring systems :
    containing 1 :

Match level :
    1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom
    10:Atom 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom
    18:Atom

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          19:Atom  20:Atom  21:Atom  22:Atom  23:Atom  24:CLASS  26:Atom
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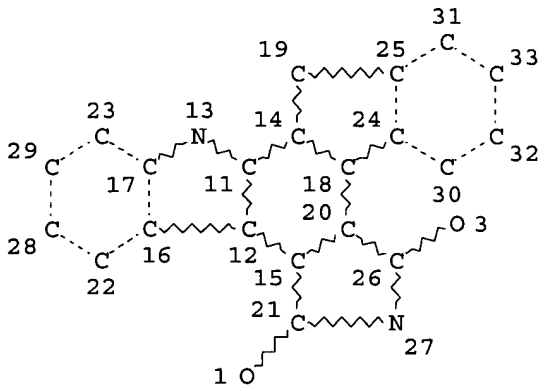

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SAMPLE SCREEN SEARCH COMPLETED -    164 TO ITERATE

100.0% PROCESSED     164 ITERATIONS                                0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:          2512 TO     4048
PROJECTED ANSWERS:                0 TO        0

L8             0 SEA SSS SAM L7

=> s l7 ful
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FULL SCREEN SEARCH COMPLETED -   3354 TO ITERATE

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SEARCH TIME: 00.00.02

L9            26 SEA SSS FUL L7
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=> s l9
L10         10 L9

=> d bib abs 1-10

L10  ANSWER 1 OF 10  CAPLUS  COPYRIGHT 2002 ACS
AN   2002:142907  CAPLUS
DN   136:194260
TI   Methods for modulating multiple lineage kinase proteins and screening
     compounds which modulate multiple linease kinase proteins
IN   Maroney, Anna; Walton, Kevin M.; Dionne, Craig A.; Neff, Nicola; Knight,
     Ernest, Jr.; Glicksman, Marcie A.
PA   Cephalon, Inc., USA
SO   PCT Int. Appl., 114 pp.
     CODEN: PIXXD2
DT   Patent
LA   English
FAN.CNT 1
     PATENT NO.        KIND  DATE           APPLICATION NO.  DATE
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PI   WO 2002014536      A2   20020221       WO 2001-US24822  20010808
         W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT,
             RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ,
             VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
             DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
             BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
PRAI US 2000-637054     A    20000811
OS   MARPAT 136:194260
AB   Methods for identifying compds. which modulate activity of a multiple
     linease kinase protein and promotes cell survival or cell death comprising
     the steps of contacting the cell contg. the multiple linease protein with
     the compd., detg. whether the compd. decreases activity of the multiple
     linease protein, and detg. whether the compd. promotes cell survival are
     provided.  Methods for identifying compds. which may be useful in the
     treatment of neurodegenerative disorders and/or inflammation are also
     provided.  Methods for modulating the activity of a multiple linage kinase
     protein comprising contacting the protein or a cell contg. the protein
     with an indeno- or indolo-compd. of the invention are also provided.
     Methods of treating neurodegenerative disorders and/or inflammation are
     also provided.

L10  ANSWER 2 OF 10  CAPLUS  COPYRIGHT 2002 ACS
AN   2000:573797  CAPLUS
DN   133:177158
TI   Preparation of cyclic substituted fused pyrrolocarbazoles and isoindolones
     with protein kinase inhibiting activity for pharmaceutical use
IN   Hudkins, Robert L.; Reddy, Dandu; Singh, Jasbir; Stripathy, Rabindranath;
     Underiner, Theodore L.
PA   Cephalon, Inc., USA
SO   PCT Int. Appl., 131 pp.
     CODEN: PIXXD2
DT   Patent
LA   English
FAN.CNT 1
     PATENT NO.        KIND  DATE           APPLICATION NO.  DATE
     ---------------   ----  --------       ---------------  --------
PI   WO 2000047583      A1   20000817       WO 2000-US3476   20000211
         W:  AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,
             CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,
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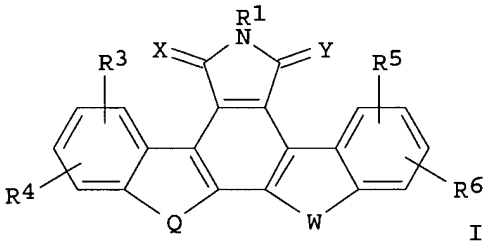
IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

EP 1165562	A1	20020102	EP 2000-911759	20000211	
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO					
BR 2000008056	A	20020409	BR 2000-8056	20000211	
NO 2001003887	A	20011011	NO 2001-3887	20010809	
PRAI US 1999-119834P	P	19990212			
US 2000-500849	A	20000210			
WO 2000-US3476	W	20000211			

OS MARPAT 133:177158
GI



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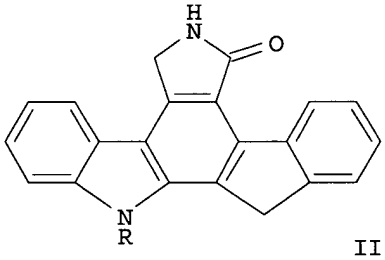

II

AB Fused pyrrolocarbazoles and isoindolones, such as I [R1 = H, alkyl, aryl, arylalkyl, heteroaryl, heteroarylalkyl; R3-6 = H, CN, CF3, OH, CH2OH, halogen, aryl, heteroaryl, acyl, acyloxy, amino, etc.; Q = O, S, NR7; W = CR8R9; X, Y = H2, O; R7 = H, alkyl, heterocyclylalkyl, etc.; R8, R9 = H, OH, cycloalkyl, cycloalkylmethyl, heterocyclyl, heterocyclylalkyl, etc.], were prepd. for use as agents for the regulation of protein kinase and for the treatment of prostate disorders, neoplasia, rheumatoid arthritis, pulmonary fibrosis, etc. Thus, II (R = oxiranylmethyl) was prepd. in 71% yield by via reaction of (.+-.)-glycidyl mesylate and Rink's acid resin bound 6,7,12,13-tetrahydro-5H-indeno[2,1-a]pyrrolo[3,4-c]carbazol-5-one. The prepd. compds. were tested for inhibitory activity against a variety of protein kinases, such as trkA tyrosine kinase, vascular endothelial growth factor receptor kinase, protein kinase C, etc.
RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2002 ACS
AN 2000:227509 CAPLUS
DN 132:260705
TI Methods using fused pyrrolocarbazole compounds for preventing/treating damage to sensory hair cells and cochlear neurons
IN Ylikoski, Jukka; Pirvola, Ulla; Saarma, Mart; Walton, Kevin; Hudkins, Robert L.
PA Cephalon, Inc., USA
SO PCT Int. Appl., 232 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2000018407	A1	20000406	WO 1999-US21780	19990924

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

	AU 9960532	A1	20000417	AU 1999-60532	19990924
	EP 1126855	A1	20010829	EP 1999-969678	19990924

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO

PRAI	US 1998-101763P	P	19980925
	WO 1999-US21780	W	19990924

OS MARPAT 132:260705

AB Methods for preventing or treating damage to sensory hair cells and cochlear neurons are disclosed. The methods comprise the administration of an effective amt. of a fused pyrrolocarbazole compd. (Markush included). The method provides for the prevention/treatment of both hearing loss and loss of the sense of balance. Prepn. of compds. of the invention is described.

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2002 ACS

AN 2000:161543 CAPLUS

DN 132:217150

TI Methods for identification of compounds modulating multiple lineage kinase proteins, compound preparation, and therapeutic use

IN Maroney, Anna; Walton, Kevin M.; Dionne, Craig A.; Neff, Nicola; Knight, Ernest, Jr.; Glicksman, Marcie A.

PA Cephalon, Inc., USA

SO PCT Int. Appl., 158 pp.
CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000013015	A1	20000309	WO 1999-US18864	19990818

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

	AU 9956793	A1	20000321	AU 1999-56793	19990818
	EP 1105728	A1	20010613	EP 1999-943759	19990818

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO

	BR 9913190	A	20011211	BR 1999-13190	19990818
	NO 2001000389	A	20010402	NO 2001-389	20010123
PRAI	US 1998-97980P	P	19980826		
	WO 1999-US18864	W	19990818		

OS MARPAT 132:217150

AB Methods for identifying compds. which modulate activity of a multiple lineage kinase protein and promotes cell survival or cell death comprise contacting the cell contg. the multiple lineage kinase protein with the compd., detg. whether the compd. decreases activity of the multiple lineage kinase protein, and detg. whether the compd. promotes cell

survival are provided. Methods for identifying compds. which may be useful in the treatment of neurodegenerative disorders and/or inflammation are also provided. Methods for modulating the activity of a multiple lineage kinase protein comprising contacting the protein or a cell contg. the protein with an indeno- or indolo- compd. of the invention are also provided. Methods of treating neurodegenerative disorders and/or inflammation are also provided.

RE.CNT 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2002 ACS
AN 1999:783942 CAPLUS
DN 132:23129
TI Bridged indenopyrrolocarbazoles
IN Singh, Jasbir; Hudkins, Robert L.; Mallamo, John P.; Underiner, Theodore L.; Tripathy, Rabindranath
PA Cephalon, Inc., USA
SO PCT Int. Appl., 90 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9962523	A1	19991209	WO 1999-US12531	19990604
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	RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	US 6127401	A	20001003	US 1999-325140	19990603
	AU 9944188	A1	19991220	AU 1999-44188	19990604
	AU 744900	B2	20020307		
	EP 1083903	A1	20010321	EP 1999-927234	19990604
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	BR 9910908	A	20011002	BR 1999-10908	19990604
	US 6359130	B1	20020319	US 2000-572160	20000517
	NO 2000006166	A	20010207	NO 2000-6166	20001204
PRAI	US 1998-88114P	P	19980605		
	US 1999-325140	A	19990603		
	WO 1999-US12531	W	19990604		

OS MARPAT 132:23129
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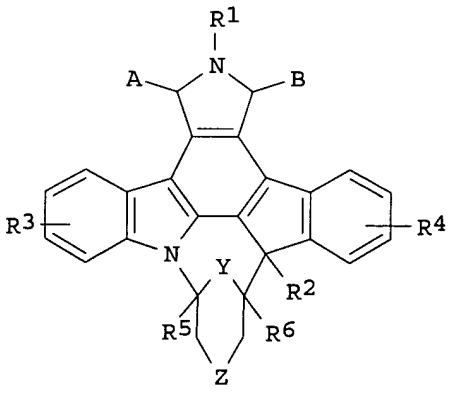

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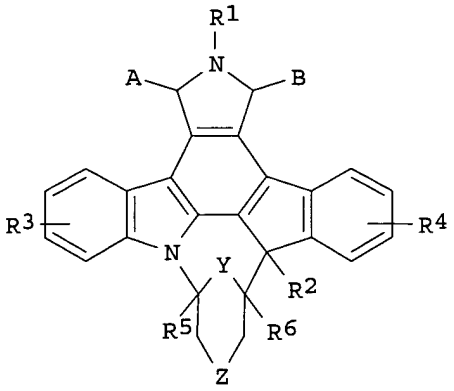

I

AB Synthesis and activity of bridged indenopyrrolocarbazoles (I) [R1 = H, (un)substituted alkyl, (un)substituted aryl, (un)substituted arylalkyl, (un)substituted heteroaryl, (un)substituted heteroarylalkyl, acyl, (un)substituted OH, (un)substituted CONH2; R2 = H, (un)substituted alkyl, (un)substituted OH, (un)substituted arylalkyl, (un)substituted heteroarylalkyl; R3 and R4 independently = H, aryl, heteroaryl, F, Cl, Br, I, CN, CF3, NO2, (un)substituted OH, (un)substituted O acyl, (un)substituted NH2, (un)substituted NHSO3H, (un)substituted NH acyl, (un)substituted alkyl; R5 and R6 independently = H, (un)substituted alkyl, (un)substituted arylalkyl, (un)substituted heteroarylalkyl; Y = O, S, (un)substituted NH, CH2; Z = bond, O, CH=CH, S, CO, (un)substituted CH(OH); A and B = 2H, O, S, (un)substituted N with the proviso that one of them is O] is disclosed. I are useful in the treatment of numerous diseases.

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2002 ACS
AN 1998:31143 CAPLUS
DN 128:114942
TI Preparation of fused pyrrolocarbazoles as drugs.
IN Hudkins, Robert L.; Knight, Ernest, Jr.
PA Cephalon, Inc., USA
SO U.S., 51 pp. Cont.-in-part of U.S. 5,594,009.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 5

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5705511	A	19980106	US 1995-526798	19950911
	US 5475110	A	19951212	US 1994-323755	19941014
	US 5591855	A	19970107	US 1995-427160	19950424
	US 5594009	A	19970114	US 1995-452335	19950526
	WO 9611933	A1	19960425	WO 1995-US12761	19951003
	W: AM, AU, BB, BG, BR, BY, CA, CN, CZ, EE, FI, GE, HU, JP, KG, KP, KR, KZ, LK, LT, LV, MG, MX, NO, NZ, PL, RO, RU, SG, SK, TJ, TT, UA, UZ, VN				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	AU 9539986	A1	19960506	AU 1995-39986	19951003
	AU 705306	B2	19990520		
	EP 785938	A1	19970730	EP 1995-938713	19951003
	EP 785938	B1	20020102		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
	BR 9509348	A	19971104	BR 1995-9348	19951003
	EP 1088823	A1	20010404	EP 2000-204170	19951003
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				

IE, LT, LV

	JP 2001509775	T2	20010724	JP 1996-513289	19951003
	AT 211472	E	20020115	AT 1995-938713	19951003
	FI 9701479	A	19970611	FI 1997-1479	19970409
	NO 9701677	A	19970611	NO 1997-1677	19970411
PRAI	US 1994-323755	A2	19941014		
	US 1995-427160	A2	19950424		
	US 1995-452335	A2	19950526		
	US 1995-526798	A	19950911		
	EP 1995-938713	A3	19951003		
	WO 1995-US12761	W	19951003		

OS MARPAT 128:114942

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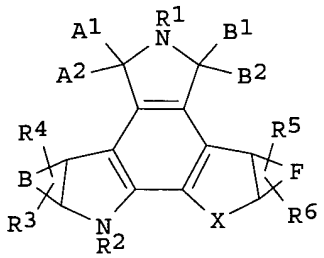

I

AB Title compds. [I; B, F = atoms to form unsatd. 5-6 membered (hetero)cycles; R1 = H, alkyl, aryl, aralkyl, heteroaryl, heteroaralkyl, acyl; R2 = H, acyl, alkyl, alkenyl, alkynyl, (substituted) monosaccharide residue; R3-R6 = H, aryl, heteroaryl, halo, cyano, CF3, NO2, (substituted) OH, amino, etc.; A1, A2, B1, B2 = (H, H), (H, OR11), (H, SR11), [H, N(R11)2]; A1A2, B1B2 = O, S, NR11; R11 = H, alkyl, aryl, heteroaryl; X = (substituted) alkylene, CH:CH, O, S, SO, SO2, CO, etc.; with provisos], were prepd. for effecting the function and/or survival of trophic factor responsive cells; inhibition of enzymic activity; inhibition of inflammation-assocd. responses; inhibition of cell growth assocd. with hyperproliferative states; and inhibition of developmentally programmed motoneuron death. Thus, 3-fluoro-5H,6H,12H,13H-indeno[2,3-a]pyrrolo[3,4-c]carbazole-7-one (prepn. given) at 250 nM increased choline acetyltransferase activity in rat fetal basal forebrain prepns. by 389%.

L10 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2002 ACS
AN 1997:70359 CAPLUS
DN 126:171583
TI Preparation of indeno[2,3-a]pyrrolo[3,4-c]carbazolediones and analogs as drugs
IN Hudkins, Robert L.; Knight, Ernest, Jr.
PA Cephalon, Inc., USA
SO U.S., 46 pp. Cont.-in-part of U.S. Ser. No. 427, 160.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 5

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5594009	A	19970114	US 1995-452335	19950526
	US 5475110	A	19951212	US 1994-323755	19941014
	US 5591855	A	19970107	US 1995-427160	19950424
	US 5705511	A	19980106	US 1995-526798	19950911
	WO 9611933	A1	19960425	WO 1995-US12761	19951003

W: AM, AU, BB, BG, BR, BY, CA, CN, CZ, EE, FI, GE, HU, JP, KG, KP, KR, KZ, LK, LT, LV, MG, MX, NO, NZ, PL, RO, RU, SG, SK, TJ, TT, UA, UZ, VN

RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE

	AU 9539986	A1	19960506	AU 1995-39986	19951003
	AU 705306	B2	19990520		
	EP 785938	A1	19970730	EP 1995-938713	19951003
	EP 785938	B1	20020102		

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE

	BR 9509348	A	19971104	BR 1995-9348	19951003
	EP 1088823	A1	20010404	EP 2000-204170	19951003

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, LT, LV

	JP 2001509775	T2	20010724	JP 1996-513289	19951003
	AT 211472	E	20020115	AT 1995-938713	19951003
	FI 9701479	A	19970611	FI 1997-1479	19970409
	NO 9701677	A	19970611	NO 1997-1677	19970411
PRAI	US 1994-323755	A2	19941014		
	US 1995-427160	A2	19950424		
	US 1995-452335	A2	19950526		
	US 1995-526798	A	19950911		
	EP 1995-938713	A3	19951003		
	WO 1995-US12761	W	19951003		

OS MARPAT 126:171583

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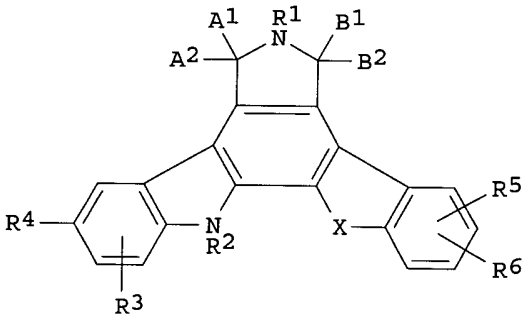

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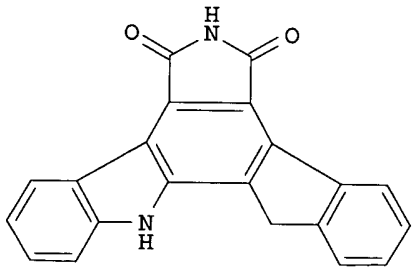


II

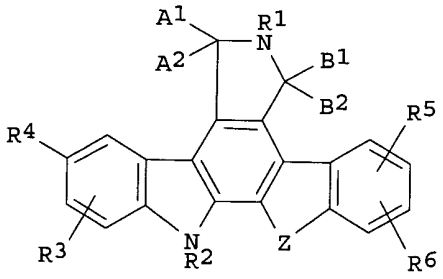
AB Title compds. [I; A1,A2,B1,B2 = H, OH, alkoxy, etc.; A1A2, B1B2 = O; R1 = H, alkyl, (hetero)aryl(alkyl), alkanoyl, etc.; R2 = H, alkyl(sulfonyl), alkoxycarbonyl, etc.; R3-R6 = H, halo, alkyl, alkoxy, etc.; X = alkylene, O, S, CH:CH, etc.] were prepd. as neuronal cell protectants, trophic factor enhancers, protein kinase C and tyrosine kinase inhibitors, etc. Thus, 2-indanone was alkylated with indole and the dehydrated product cyclocondensed with maleimide to give, after dehydrogenation, title compd. II. Data for biol. activity of I were given.

L10 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2002 ACS
AN 1997:49296 CAPLUS
DN 126:157494
TI Preparation of indeno[2,1-a]pyrrolo[3,4-c]carbazoles and analogs as drugs

IN Hudkins, Robert L.; Knight, Ernest, Jr.
PA Cephalon, Inc., USA
SO U.S., 40 pp. Cont.-in-part of U.S. 5,475,110.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 5

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5591855	A	19970107	US 1995-427160	19950424
	US 5475110	A	19951212	US 1994-323755	19941014
	US 5594009	A	19970114	US 1995-452335	19950526
	US 5705511	A	19980106	US 1995-526798	19950911
	WO 9611933	A1	19960425	WO 1995-US12761	19951003
	W: AM, AU, BB, BG, BR, BY, CA, CN, CZ, EE, FI, GE, HU, JP, KG, KP, KR, KZ, LK, LT, LV, MG, MX, NO, NZ, PL, RO, RU, SG, SK, TJ, TT, UA, UZ, VN				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	AU 9539986	A1	19960506	AU 1995-39986	19951003
	AU 705306	B2	19990520		
	EP 785938	A1	19970730	EP 1995-938713	19951003
	EP 785938	B1	20020102		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
	BR 9509348	A	19971104	BR 1995-9348	19951003
	EP 1088823	A1	20010404	EP 2000-204170	19951003
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, LT, LV				
	JP 2001509775	T2	20010724	JP 1996-513289	19951003
	AT 211472	E	20020115	AT 1995-938713	19951003
	FI 9701479	A	19970611	FI 1997-1479	19970409
	NO 9701677	A	19970611	NO 1997-1677	19970411
PRAI	US 1994-323755	A2	19941014		
	US 1995-427160	A2	19950424		
	US 1995-452335	A2	19950526		
	US 1995-526798	A	19950911		
	EP 1995-938713	A3	19951003		
	WO 1995-US12761	W	19951003		

OS MARPAT 126:157494
GI



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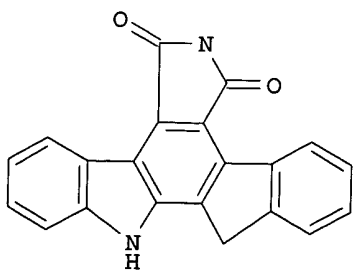

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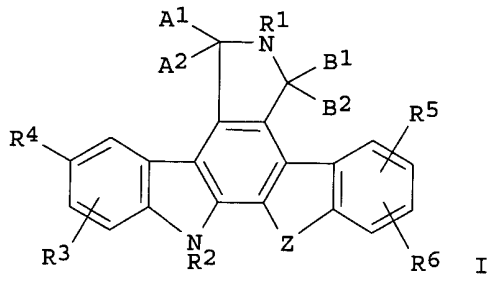

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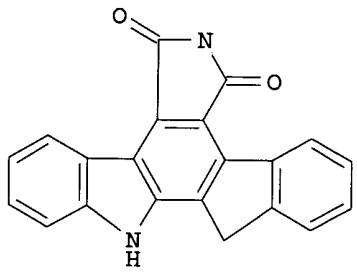


II

AB Title compds. [I; A1,A2,B1,B2 = H and OR11, H and N(R11)2, etc.; A1A2,B1B2 = H2, O, S, NR11; R1 = H, alkyl, (hetero)aryl(alkyl), etc.; R2 = H, alkyl, alkoxycarbonyl, etc.; R3-R6 = H, halo, alkyl, alkoxy, etc.; R11 = H, alkyl, aryl, etc.; Z = O, S, CH2, CH:CH, CO, etc.] were prepd. as neuronal cell survival promoters, protein kinase inhibitors, antiproliferatives, antiinflammatories, etc. Thus, indole was condensed with 2-indanone and the dehydrated product cyclocondensed with maleimide to give, after DDQ dehydrogenation, title compd. II. Data for biol. activity of I were given.

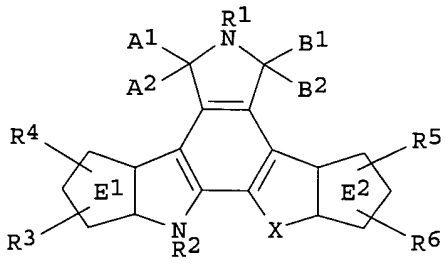
L10 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2002 ACS
AN 1996:457759 CAPLUS
DN 125:114935
TI Preparation of fused pyrrolocarbazoles as inhibitors of protein kinase C and protein tyrosine kinase
IN Hudkins, Robert L.; Knight, Ernes, Jr.
PA Cephalon, Inc., USA
SO PCT Int. Appl., 160 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 5

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9611933	A1	19960425	WO 1995-US12761	19951003
	W: AM, AU, BB, BG, BR, BY, CA, CN, CZ, EE, FI, GE, HU, JP, KG, KP, KR, KZ, LK, LT, LV, MG, MX, NO, NZ, PL, RO, RU, SG, SK, TJ, TT, UA, UZ, VN				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	US 5475110	A	19951212	US 1994-323755	19941014
	US 5591855	A	19970107	US 1995-427160	19950424
	US 5594009	A	19970114	US 1995-452335	19950526
	US 5705511	A	19980106	US 1995-526798	19950911
	AU 9539986	A1	19960506	AU 1995-39986	19951003
	AU 705306	B2	19990520		
	EP 785938	A1	19970730	EP 1995-938713	19951003
	EP 785938	B1	20020102		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
	BR 9509348	A	19971104	BR 1995-9348	19951003
	JP 2001509775	T2	20010724	JP 1996-513289	19951003

	AT 211472	E	20020115	AT 1995-938713	19951003
	FI 9701479	A	19970611	FI 1997-1479	19970409
	NO 9701677	A	19970611	NO 1997-1677	19970411
PRAI	US 1994-323755	A	19941014		
	US 1995-427160	A	19950424		
	US 1995-452335	A	19950526		
	US 1995-526798	A	19950911		
	WO 1995-US12761	W	19951003		

OS MARPAT 125:114935

GI



I

AB The title compds. [I; E1 and E2 are 6-membered carbocyclic arom. rings in which 1-3 carbon atoms may be replaced by N, or 5-membered carbocyclic arom. rings in which one carbon atom is replaced with O, N, or S, or 2 carbon atoms are replaced with S and N or O and N; A1 = A2 = H, A1A2 = O, etc.; B1 = B2 = H, B1B2 = O, etc.; R1 = H, alkyl, heteroaryl, aralkyl, aryl, etc.; R2 = H, alkyl, alkenyl, alkynyl, SO2-R9, CO2-R9, CO-R9 where R9 = alkyl, aryl; R3-R6 = H, aryl, F, Cl, Br, iodo, cyano, CF3, NO2, OH, etc.; X = (un)substituted alkylene of 1-3 carbon atoms, vinylene, SO2, CO, etc.], inhibitors of protein kinase C and protein tyrosine kinase and therefore useful for cell growth, cell hyperproliferation inhibition, and inflammation inhibition, are prepd. Thus, 4c,7a,7b,12a-tetrahydro-6H,12H,13H-indeno[2,3-a]pyrrolo[3,4-c]carbazole-5,7(5H,7H)-dione, prepd. from 2-(2-indenyl)indole and maleimide, was treated with 2,3-dichloro-5,6-dicyano-1,4-benzoquinone in toluene to give the title compd. 6H,12H,13H-indeno[2,3-a]pyrrolo[3,4-c]carbazole-5,7(5H,7H)-dione. In an assay based on reported by Kikkawa Et al. (1982) this had an IC50 of 0.07 .mu.M against protein kinase C.

L10 ANSWER 10 OF 10 CAPLUS COPYRIGHT 2002 ACS

AN 1996:35030 CAPLUS

DN 124:202228

TI Fused pyrrolocarbazoles useful for enhancing the function/survival of neuronal cells and inhibition of protein kinase, inflammation response, and hyperproliferative cell growth

IN Hudkins, Robert L.; Knight, Jr Ernest

PA Cephalon, Inc., USA

SO U.S., 33 pp.
CODEN: USXXAM

DT Patent

LA English

FAN.CNT 5

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5475110	A	19951212	US 1994-323755	19941014
	US 5591855	A	19970107	US 1995-427160	19950424
	US 5594009	A	19970114	US 1995-452335	19950526
	US 5705511	A	19980106	US 1995-526798	19950911
	WO 9611933	A1	19960425	WO 1995-US12761	19951003

W: AM, AU, BB, BG, BR, BY, CA, CN, CZ, EE, FI, GE, HU, JP, KG, KP,

KR, KZ, LK, LT, LV, MG, MX, NO, NZ, PL, RO, RU, SG, SK, TJ, TT, UA, UZ, VN
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE

AU 9539986	A1	19960506	AU 1995-39986	19951003	
AU 705306	B2	19990520			
EP 785938	A1	19970730	EP 1995-938713	19951003	
EP 785938	B1	20020102			
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE					
BR 9509348	A	19971104	BR 1995-9348	19951003	
EP 1088823	A1	20010404	EP 2000-204170	19951003	
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, LT, LV					
JP 2001509775	T2	20010724	JP 1996-513289	19951003	
AT 211472	E	20020115	AT 1995-938713	19951003	
FI 9701479	A	19970611	FI 1997-1479	19970409	
NO 9701677	A	19970611	NO 1997-1677	19970411	
PRAI US 1994-323755	A2	19941014			
US 1995-427160	A2	19950424			
US 1995-452335	A2	19950526			
US 1995-526798	A	19950911			
EP 1995-938713	A3	19951003			
WO 1995-US12761	W	19951003			

OS MARPAT 124:202228
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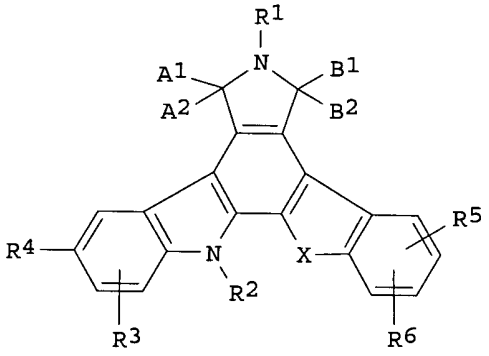

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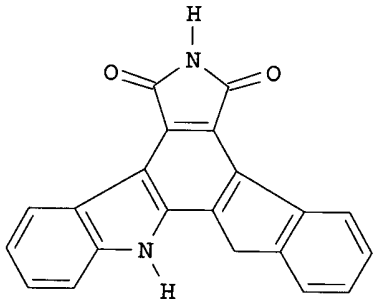


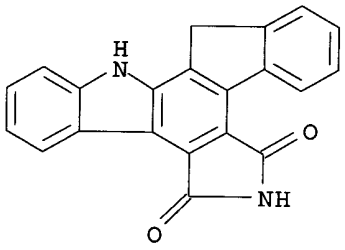
II

AB Disclosed herein are fused pyrrolocarbazoles I wherein: R1 = e.g., H, alkyl of 1-4 carbons, aryl, arylalkyl, heteroaryl, heteroarylalkyl; R2 = H, SO2R9, CO2R9, COR9, alkyl of 1-8 carbons, alkenyl of 1-8 carbons, alkynyl of 1-8 carbons, and a monosaccharide of 5-7 carbons wherein each hydroxyl group of said monosaccharide is independently selected from the group consisting of unsubstituted hydroxyl group and a replacement moiety replacing said hydroxyl group; R9 is selected from the group consisting of alkyl of 1-4 carbons, and aryl; R3, R4, R5, and R6 are each independently

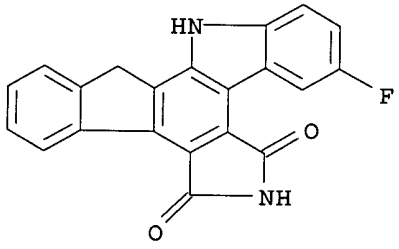
selected from the group consisting of, e.g., H, aryl, heteroaryl, F, Cl, Br, I, CN, CF3, NO2, OH, OR9; X = e.g., (un)substituted alkylene of 1-3 carbons; (A1,A2) = e.g., (H,H), O, S; (B1,B2) = e.g., (H,H), O, S; with the proviso that at least one of the pairs (A1,A2) or (B1,B2) is O, useful for enhancing the function/survival of neuronal cells and inhibition of protein kinase, inflammation response, and hyperproliferative cell growth. Thus, e.g., 6H,12H,13H-indeno[2,3-a]pyrrolo[3,4-c]carbazole-5,7(5H,7H)-dione II was prepd. via Diels-Alder cycloaddn. of 2-(2-indenyl)indole (prepn. given) with maleimide followed by aromatization of the resultant 4c,7a,7b,12a-tetrahydro-6H,12H,13H-indeno[2,3-a]pyrrolo[3,4-c]carbazole-5,7(5H,7H)-dione. II exhibited a 148% increase (over control) of spinal chord ChaT (choline acetyltransferase) activity in the dissocd. rat embryonic spinal cord culture assay, and an IC50 = 0.07 .mu.M for inhibition of protein kinase C.

=> d hitstr 10

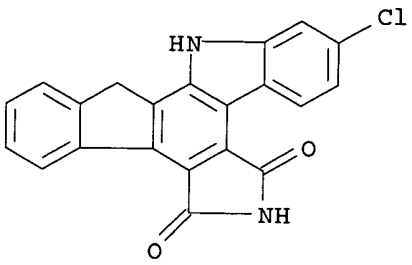
L10 ANSWER 10 OF 10 CAPLUS COPYRIGHT 2002 ACS
IT **174349-11-2P 174349-21-4P 174349-29-2P**
174349-35-0P 174349-53-2P 174349-87-2P
RL: BAC (Biological activity or effector, except adverse); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(fused pyrrolocarbazoles useful for enhancing the function/survival of neuronal cells and inhibition of protein kinase, inflammation response, and hyperproliferative cell growth)
RN 174349-11-2 CAPLUS
CN 5H-Indeno[2,1-a]pyrrolo[3,4-c]carbazole-5,7(6H)-dione, 12,13-dihydro- (9CI) (CA INDEX NAME)



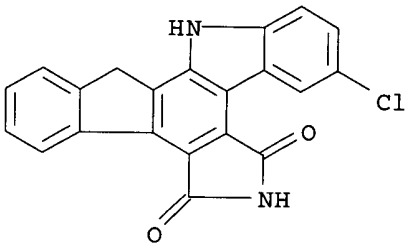
RN 174349-21-4 CAPLUS
CN 5H-Indeno[2,1-a]pyrrolo[3,4-c]carbazole-5,7(6H)-dione, 9-fluoro-12,13-dihydro- (9CI) (CA INDEX NAME)



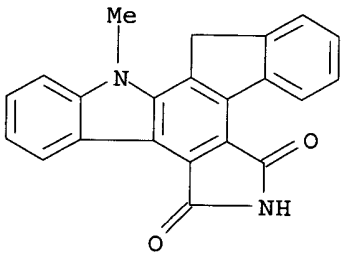
RN 174349-29-2 CAPLUS
CN 5H-Indeno[2,1-a]pyrrolo[3,4-c]carbazole-5,7(6H)-dione, 10-chloro-12,13-dihydro- (9CI) (CA INDEX NAME)



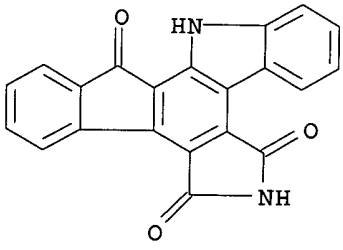
RN 174349-35-0 CAPLUS
CN 5H-Indeno[2,1-a]pyrrolo[3,4-c]carbazole-5,7(6H)-dione, 9-chloro-12,13-dihydro- (9CI) (CA INDEX NAME)



RN 174349-53-2 CAPLUS
CN 5H-Indeno[2,1-a]pyrrolo[3,4-c]carbazole-5,7(6H)-dione, 12,13-dihydro-12-methyl- (9CI) (CA INDEX NAME)



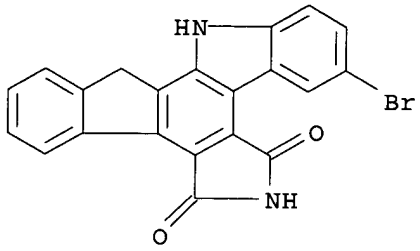
RN 174349-87-2 CAPLUS
CN 5H-Indeno[2,1-a]pyrrolo[3,4-c]carbazole-5,7,13(6H,12H)-trione (9CI) (CA INDEX NAME)



IT **174349-36-1P 174349-44-1P 174349-45-2P**
174349-49-6P 174349-88-3P 174349-89-4P
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP

(Preparation); USES (Uses)
(fused pyrrolocarbazoles useful for enhancing the function/survival of neuronal cells and inhibition of protein kinase, inflammation response, and hyperproliferative cell growth)

RN 174349-36-1 CAPLUS
CN 5H-Indeno[2,1-a]pyrrolo[3,4-c]carbazole-5,7(6H)-dione, 9-bromo-12,13-dihydro- (9CI) (CA INDEX NAME)



RN 174349-44-1 CAPLUS
CN 5H-Indeno[2,1-a]pyrrolo[3,4-c]carbazole-5,7(6H)-dione, 3-bromo-12,13-dihydro- (9CI) (CA INDEX NAME)